

CLAIM AMENDMENTS

1. (Original) A method to install a tool in a well, comprising:
running the tool into the well; and
fixing the tool to the well with a fixing agent without pumping the fixing agent through a central passageway of the tool.
2. (Original) The method of claim 1, wherein the fixing agent comprises cement.
3. (Original) The method of claim 1, wherein the tool comprises a casing conveyed tool.
4. (Original) The method of claim 1, wherein the fixing comprises pumping the fixing agent into the well and then running the tool into the well.
5. (Original) The method of claim 4, further comprising:
isolating a bottom of the tool to prevent the fixing agent from entering the central passageway of the tool.
6. (Original) The method of claim 5, wherein the isolating comprises sealing off a bottom end of the tool.
7. (Original) The method of claim 4, wherein the fixing comprises:
running a tubing to a region where the tool is to be fixed to the well; and
communicating the fixing agent into the well via the tubing.
8. (Original) The method of claim 4, wherein the fixing comprises:
pumping the fixing agent into an uncased region of the well.

9. (Original) The method of claim 4, further comprising:
running a perforating gun string inside the tool; and
firing the perforating gun.
10. (Original) The method of claim 1, wherein the fixing comprises:
running the tool into the well; and
subsequently pumping the fixing agent into an annulus surrounding the tool.
11. (Original) The method of claim 10, wherein the pumping comprises:
using reverse circulation to pump the fixing agent into the annulus.
12. (Original) The method of claim 10, further comprising:
isolating the bottom of the tool to prevent the fixing agent from entering the central
passageway of the tool.
13. (Original) The method of claim 10, further comprising:
running a perforating gun string inside the tool; and
firing the perforating gun.
14. (Original) The method of claim 1, wherein the fixing comprises:
running a casing into a wellbore of the well; and
running the tool inside the casing.
15. (Original) The method of claim 14, further comprising:
pumping the fixing agent between the casing and the tool.
16. (Original) The method of claim 14, further comprising:
running a perforating gun inside the tool; and
firing the perforating gun.

17. (Original) A method usable with a subterranean well, comprising:
running a tool into the well via a protection tubing;
introducing a fixing agent into the well after the running so that the fixing agent at least partially surrounds the tool; and
operating the tool after the fixing agent sets.
18. (Original) The method of claim 17, wherein the fixing agent comprises cement.
19. (Original) The method of claim 17, wherein the tool comprises a casing conveyed tool.
20. (Original) The method of claim 17, wherein the operating the tool comprises firing a perforating gun.
21. (Original) The method of claim 17, wherein the introducing the fixing agent comprises:
introducing the fixing agent via a tubing; and
retrieving the tubing after the introduction of the fixing agent.
22. (Original) The method of claim 17, where the tool is part of a perforating gun string, the method further comprising:
using the perforating gun string as a production tubing.
23. (Original) The method of claim 22, further comprising:
cleaning out the perforating gun string before using the gun string as the production tubing.

24. (Original) A method usable with a subterranean well, comprising:
introducing a tool into the well;
introducing a fixing agent into an annulus between the tool and a wall of the well;
isolating a central passageway of the tool from the fixing agent; and
operating the tool after the cementing.
25. (Original) The method of claim 24, wherein the operating the tool comprises:
firing a perforating gun.
26. (Original) The method of claim 24, wherein the introducing the fixing agent comprises:
running a tubing into the wellbore;
introducing the fixing agent via the tubing; and
retrieving the tubing after the introduction of the fixing agent.
27. (Original) The method of claim 24, wherein the tool is part of a perforating gun string, the method further comprising:
using the perforating gun string as a production tubing.
28. (Original) The method of claim 27, further comprising:
cleaning out the perforating gun string before using the gun string as the production tubing.
29. (Original) The method of claim 24, wherein the fixing agent comprises cement.
30. (Original) A method usable with a subterranean well, comprising:
running a tool into a wellbore of the subterranean well;
running a sensor into the wellbore next to the tool; and
using the sensor to monitor the introduction of a fixing agent to fix the tool inside the well.

31. (Original) The method of claim 30, wherein the using the sensor comprises:
using an optical fiber.

32.-44. (Cancelled)

45. (Original) A system usable with a subterranean well comprising:
a fixing agent; and
a tool set in the fixing agent, a bottom end of the tool being sealed to prevent the fixing
agent from entering the tool before the fixing agent is set.

46. (Original) The system of claim 45, wherein the tool comprises a perforating gun.

47. (Original) The system of claim 45, wherein the fixing agent comprises cement.

48. (Original) A system usable with a subterranean well, comprising:
a fixing agent;
a perforating gun string set in the fixing agent,
wherein the perforating gun is adapted to produce well fluid from the well through the
production tubing after the perforating gun fires.

49. (Original) The system of claim 48, wherein the fixing agent comprises cement.

50. (Original) The system of claim 48, further comprising:
an optical fiber attached to the gun string; and
a circuit coupled to the optical fiber and adapted to monitor the fixing agent prior to
setting of the fixing agent.

51. (Original) The system of claim 50, wherein the circuit is adapted to use the
optical fiber to monitor a temperature of the fixing agent.

52.-60. (Cancelled)